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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/042,178	01/11/2002	Jean-Pierre Rombeaut	Q68010	5996
23373	7590	11/16/2005	EXAMINER	
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			BHATIA, NEERAJ R	
			ART UNIT	PAPER NUMBER
			2661	

DATE MAILED: 11/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. OK

10/042,178

Applicant(s)

ROMBEAUT ET AL.

Examiner

Neeraj Bhatia

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 January 2002.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 January 2002 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
- Paper No(s)/Mail Date _____.

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Drawings

1. The drawings are objected to because figures 1 and 3 need descriptive labels. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract of the disclosure is objected to because "said" on lines 15,16 and 17 should be deleted. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 4, the phrase "CORBA type" renders the claim(s) indefinite because the claim(s) include(s) elements not actually disclosed (those encompassed by "CORBA type"), thereby rendering the scope of the claim(s) unascertainable. See MPEP § 2173.05(d).

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

6. Claims 1, 3, 5 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Fukushima (Pat No. 6,049,524). Regarding claim 1, Fukushima includes a router 10, in

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Fig 1, made up of two router modules 11a and 11b, only one of which is active. The other being in a standby state (column 6 lines 5-6) with a changeover means making it possible to cause it to go from a standby state to an active state when the router module in the active state stops (column 7 lines 46-49 of the Detailed Description of Embodiment). Furthermore, the router is connected to a plurality of other networks (Fig 1 and column 5 lines 44-45) and the router modules have state machines (Fig 9) managing the interface associated with the connection to the networks (column 8 lines 60-65). Also note when the routing module is in the active state, it has data storage means to hold information about the state of the state machines (column 9 lines 18 of the Detailed Description of Embodiment) and the other router is capable of retrieving the data relating to the state of the state machines (column 7 lines 61-65 and column 8 lines 8-11 of the Detailed Description of the Embodiment).

With respect to claim 3, Fukushima discloses an internal bus 12 in Fig 1 that enables the router modules 11a and 11b to communicate with each other (column 5 lines 54-59).

Regarding claim 5, the router module 11a in Fig 2 contains the protocol information manager, which generates routing protocol information, such as interface state, and retains this information (column 8 lines 60-65). The router module 11b, after changing over to the active state is capable of retrieving this data as described in column 7 lines 61-65 and column 8 lines 8-11.

With regards to claim 6, a stable state in the Fukushima reference, Fig 9, 'Update Network Link State Data Base', which occurs when it is necessary to update or delete

existing information or add new information concerning the network link state to the link state data base (column 10 lines 33-48) is equivalent to the state "NeighborChange".

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fukushima in view of Tsukakoshi.

Fukushima does not disclose a shared memory that is shared between the router modules to hold the data relating to the states of the state machines. However, Tsukakoshi, in Patent No. 6,577,634, discloses a router with a plurality of route calculation units, only one of which is in the active state, while the others are in the backup state (column 10 lines 11-13). The NISP (Network Information Sharing Protocol) means generates a network information notification packet 19 (Fig 18) based on updated network information and sends the packet to all the backup-state route calculation units 20 (column 10 lines 33-38). This keeps the network information 16 of the backup-state route calculation unit 20 up-to-date (column 10 lines 58-60). This prevents the need for the backup-state route calculation unit, once entering the active state, to obtain network information 16 from some other router 25, minimizing the influence of an error (column 10 lines 60-65). It would have been obvious to one of

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ordinary skill in the art at the time of the invention to include in Fukushima a shared memory as suggested by Tsukakoshi in order for the routing modules to share the network information and minimize the influence of error.

9. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fukushima in view of Couturier.

Fukushima includes a router as stated above, but does not include a software bus of the CORBA type as the inter-process communications means for the routing modules. However, Couturier in Patent No. 6,073,184 discloses a software bus 8 in Fig 1 that complies with the CORBA specification published by OMG (column 1 lines 14-17 and in column 6 lines 22-28). The software bus used by Couturier is used to deliver requests to the objects concerned, which are distributed over various data processor units, and to return the output values to the client objects. It would have been obvious to one of ordinary skill in the art at the time of the invention to include in Fukushima a software bus of the CORBA type as suggested by Couturier in order to enable the objects to communicate with each other simply by submitting requests independently of their situation on the network.

Double Patenting

10. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

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A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

11. Claims 1-6 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1-6 of copending Application No. 10042177. This is a provisional double patenting rejection since the conflicting claims have not in fact been patented.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Lau (Pub No. US 2003/0046604 A1) shows a router comprising of an active processor and a standby processor. The standby processor takes over as the active processor upon failure of the active processor. Lau also includes inter-processing means of communication between the two processors in order to update the standby processor. Also note, Lau includes a means for storing the updated protocol information. Jensen (Pub No. US 2002/0186653 A1) includes an active and standby network node, with changeover means enabling the standby network node to take over if the active node fails. The nodes are interconnected by a bus and have a means for storage. Ren (Pub No. 2003/0056138 A1) discloses two processors, one of which is active and the other in standby, using the OSPF routing protocol. The standby processor takes over upon failure of the active processor. Ren also discloses a means for the two processors to communicate along with a data storage unit. Watson (Pub No.

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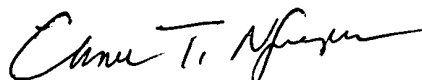
US 2002/0167952 A1) includes two processors, only one of which is in the active mode, while the other is in standby mode. The standby processor capable of taking over if the active processor fails, and the two processors are capable of communicating with each other. Watson also includes a means for storage.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Neeraj Bhatia whose telephone number is (571)272-5204. The examiner can normally be reached on Monday through Friday: 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on (571)272-3126. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NB



CHAU NGUYEN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600